Ron Grubb, Educ 209 Integrated Course Design for PTEC 207, Quality Course

**Learning Goals**

1. View any production work as a System vice many unrelated processes.
2. Recommend and use Quality Tools to analyze a problem
3. Organize and Facilitate Brain Storming Sessions

**Teaching and Learning Activities**

1. Classroom lecture and reading about Quality Tools.
2. Industry case study research, group discussion and classroom application or quality tools.
3. Participate in Student directed Brain Storming sessions
4. Student exercises in preparing and presenting “Fish Bone/Pareto” charts.
5. Presentation and student participation in Dr. Deming’s “Red Bead” experiment.

**Feedback and Assessment**

1. Students preparing Process Flow Diagram of the system in its entirety.
2. Students written assessment and group discussions of case studies using quality tools.
3. Performing in teams to accomplish brain storming sessions and root cause analysis.
4. Final project of a current industry event to include analysis, “Fish bone or Pareto charts”, description of the quality system and recommendations.